



**SUMMARY TEST DATA
ON
SDLVA-6G18G-CD-2-OPT218**

PL36394/2218

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25° C
Model No: SDLVA-6G18G-CD-2-OPT218 Date: 4/28/2022
Serial No: PL36394/2218 Drawing No: 27623906 Rev: A1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency:	2.0 GHz – 18.0 GHz	2.0 GHz – 18.0 GHz See Plots	PMI QA 2
2	Flatness:	± 2.0 dB Maximum	±1.3 dB 25°C See Plots	
3	TSS:	-70 dBm Minimum	-72 dBm	
4	VSWR:	2.0:1 (Input)	1.7:1 (Input)	
5	Power Input:	+17 dBm CW Maximum	Pass	
6	RF Out:	+13 dBm ±3 dB Typical	13.28 dBm Avg.	
7	Log Slope:	25 mV/dB (±10%) 50Ω	24.5 mV/dB See Plots	
8	Log Range:	-70 to +5 dBm	-70 to +5 dBm See Plots	
9	Log Linearity:	±2.5 dB (-40°C - +85°C)	±2.2 dB See Plots	
10	Pulse Range:	30 ns to CW	Pass	
11	Rise Time:	10 ns (6 ns Typical)	7.0 ns	
12	Recovery Time:	60 ns Typical	43.8 ns	
13	DC Supply:	+15V or +12V @ 350 mA -15V or -12V @ 180 mA	+12V @ 258 mA -12V @ 99 mA	PMI QA 2

QA/QC Approval: PMI QA 2

Date: 4/29/2022



SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

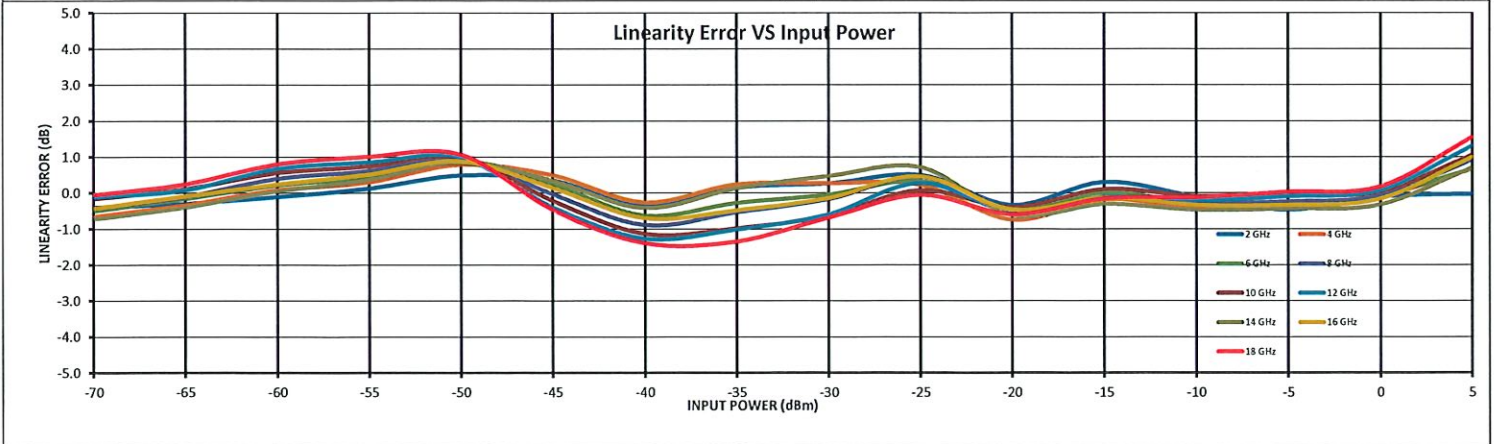
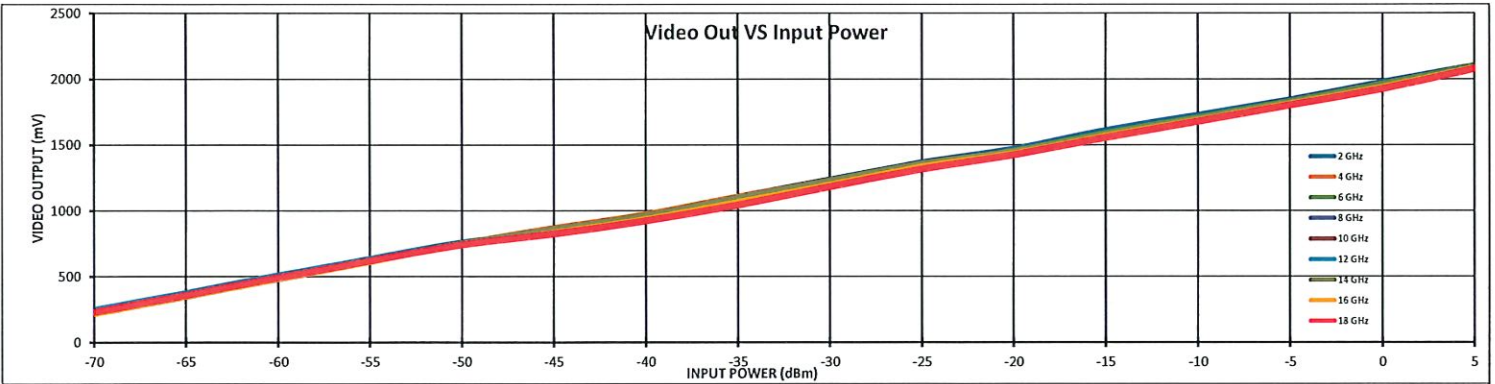
PL36394/2218

Log Transfer Over Frequency +25°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36394/2218
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +25°C

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	1992	25.0	0.5	220	348	478	609	743	864	971	1110	1238	1369	1473	1614	1729	1845	1979	2107	Measured Value (mV)
				-10	-7	-2	3	12	9	-9	4	7	18	-8	8	-3	-12	-3	-1	ERROR (mV)
				-0.40	-0.30	-0.10	0.13	0.49	0.35	-0.37	0.15	0.27	0.50	-0.33	0.30	-0.11	-0.47	-0.10	-0.02	LINEARITY ERROR (dB)
4 GHz	1966	24.6	0.8	226	357	491	619	754	870	975	1110	1234	1356	1455	1592	1710	1833	1964	2106	Measured Value (mV)
				-16	-8	2	7	19	12	-6	6	7	6	-18	-4	-10	-10	-2	17	ERROR (mV)
				-0.66	-0.34	0.09	0.30	0.79	0.49	-0.26	0.24	0.27	0.23	-0.75	-0.18	-0.41	-0.39	-0.10	0.67	LINEARITY ERROR (dB)
6 GHz	1964	24.8	0.8	218	350	483	613	747	855	958	1090	1220	1353	1457	1593	1709	1832	1963	2105	Measured Value (mV)
				-12	-4	5	11	21	6	-16	-7	-1	8	-12	0	-7	-8	-1	17	ERROR (mV)
				-0.50	-0.15	0.21	0.44	0.85	0.23	-0.63	-0.27	-0.04	0.33	-0.49	0.01	-0.28	-0.33	-0.06	0.67	LINEARITY ERROR (dB)
8 GHz	1943	24.3	0.9	230	359	493	620	749	847	948	1078	1209	1346	1444	1575	1693	1816	1941	2087	Measured Value (mV)
				-10	-3	10	16	23	-1	-22	-13	-4	11	-12	-3	-7	-6	-2	23	ERROR (mV)
				-0.42	-0.10	0.41	0.61	0.95	-0.03	-0.89	-0.53	-0.16	0.46	-0.50	-0.13	-0.28	-0.24	-0.08	0.93	LINEARITY ERROR (dB)
10 GHz	1941	24.4	1.1	230	359	492	618	746	838	938	1064	1194	1333	1444	1578	1695	1818	1942	2089	Measured Value (mV)
				-4	3	14	18	24	-5	-28	-24	-15	2	-10	2	-2	-1	1	26	ERROR (mV)
				-0.16	0.11	0.56	0.75	0.98	-0.22	-1.14	-0.98	-0.63	0.08	-0.40	0.10	-0.08	-0.06	0.04	1.06	LINEARITY ERROR (dB)
12 GHz	1937	24.1	1.3	247	372	507	632	756	843	942	1069	1200	1341	1443	1573	1691	1814	1939	2089	Measured Value (mV)
				-3	2	16	21	24	-10	-31	-24	-14	7	-12	-3	-5	-2	2	32	ERROR (mV)
				-0.11	0.08	0.68	0.86	0.99	-0.39	-1.27	-1.01	-0.59	0.28	-0.51	-0.11	-0.21	-0.09	0.08	1.31	LINEARITY ERROR (dB)
14 GHz	1948	24.4	0.9	222	352	485	614	749	858	961	1097	1227	1355	1445	1574	1693	1816	1940	2087	Measured Value (mV)
				-18	-10	1	9	21	8	-10	3	12	17	-16	-7	-11	-11	-8	17	ERROR (mV)
				-0.72	-0.39	0.06	0.37	0.88	0.34	-0.42	0.13	0.47	0.72	-0.61	-0.31	-0.47	-0.43	-0.32	0.70	LINEARITY ERROR (dB)
16 GHz	1946	24.6	1.0	211	343	474	604	736	841	944	1072	1204	1342	1442	1573	1692	1815	1942	2094	Measured Value (mV)
				-10	-2	6	13	22	3	-17	-12	-3	11	-11	-3	-8	-4	4	25	ERROR (mV)
				-0.42	-0.09	0.25	0.52	0.89	0.14	-0.70	-0.48	-0.14	0.47	-0.46	-0.13	-0.34	-0.33	-0.16	1.00	LINEARITY ERROR (dB)
18 GHz	1921	24.1	1.6	232	359	493	619	741	824	923	1044	1181	1317	1424	1555	1677	1801	1925	2079	Measured Value (mV)
				-1	6	19	24	26	-11	-34	-32	-16	-1	-14	-4	-3	1	4	37	ERROR (mV)
				-0.05	0.24	0.80	1.01	1.06	-0.47	-1.40	-1.35	-0.68	-0.05	-0.60	-0.16	-0.12	0.03	0.17	1.55	LINEARITY ERROR (dB)
Avg. Slope: 24.5 mV/dB				0.7	0.6	0.7	0.6	0.4	0.9	1.1	1.3	1.2	1.1	1	1.2	1.1	0.9	1.1	0.6	Flatness dB: ±1.3 dB





SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36394/2218

Log Transfer Over Frequency +85°C

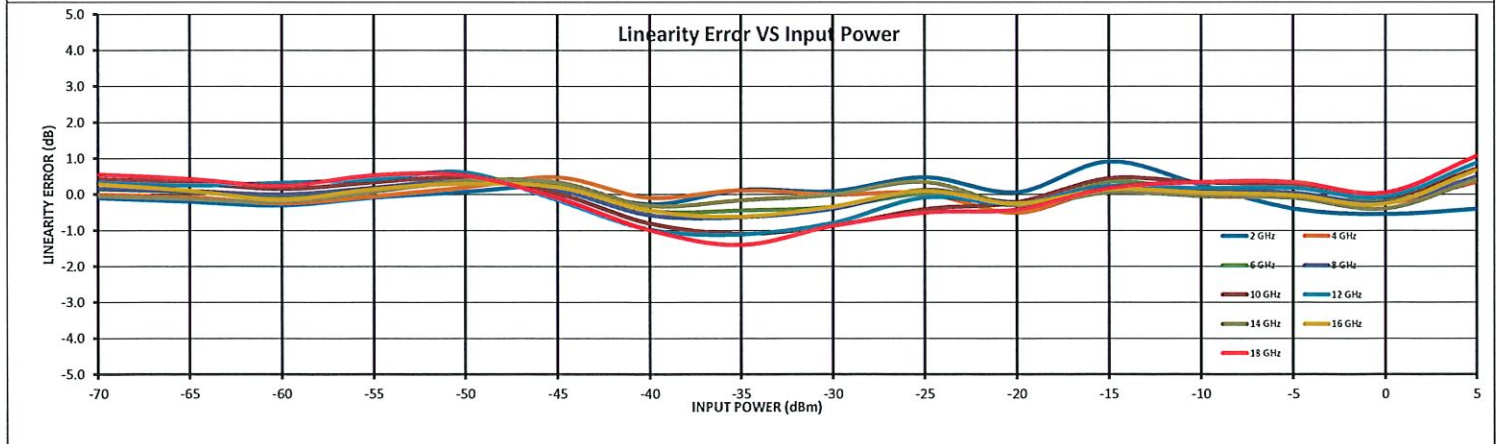
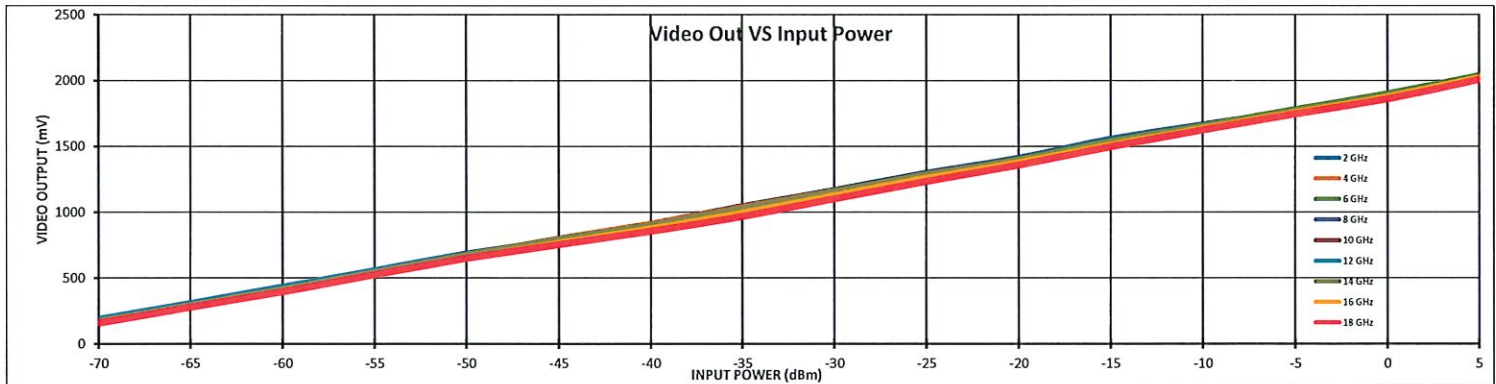


Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36394/2218
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: +85°C

Frequency	INTERCEPT (mV)	1908	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	1908	178	299	419	548	675	803	914	1047	1170	1303	1416	1560	1668	1775	1894	2021	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-2	-5	-7	-2	2	6	-7	3	2	12	2	23	7	-10	-14	-10	ERROR (mV)
	LIN. ERR. (dB)	0.9	-0.09	-0.19	-0.29	-0.07	0.07	0.23	-0.27	0.13	0.10	0.48	0.06	0.92	0.27	-0.39	-0.55	-0.40	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1910	170	292	413	542	672	803	913	1043	1164	1289	1400	1541	1660	1784	1904	2043	Measured Value (mV)
	SLOPE (mV/dB)	24.9	0	-2	-6	-1	5	12	-2	3	0	1	-13	4	-1	-2	-6	9	ERROR (mV)
	LIN. ERR. (dB)	0.5	0.00	-0.07	-0.23	-0.05	0.19	0.47	-0.09	0.12	0.00	0.03	-0.51	0.16	-0.05	-0.07	-0.25	0.35	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1908	170	292	413	542	672	794	901	1026	1153	1286	1403	1543	1661	1783	1903	2042	Measured Value (mV)
	SLOPE (mV/dB)	24.9	4	2	-2	3	8	6	-11	-11	-9	1	-7	9	2	0	-5	10	ERROR (mV)
	LIN. ERR. (dB)	0.4	0.15	0.07	-0.08	0.11	0.33	0.24	-0.45	-0.44	-0.34	0.02	-0.28	0.36	0.08	0.00	-0.19	0.40	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1890	172	293	414	541	670	786	892	1013	1142	1278	1393	1527	1647	1768	1884	2025	Measured Value (mV)
	SLOPE (mV/dB)	24.6	4	3	0	5	10	3	-14	-15	-10	3	-5	6	3	1	-6	12	ERROR (mV)
	LIN. ERR. (dB)	0.6	0.17	0.10	0.01	0.19	0.40	0.14	-0.58	-0.63	-0.39	0.12	-0.21	0.24	0.12	0.05	-0.23	0.50	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	1886	169	290	409	537	663	776	879	995	1124	1259	1387	1527	1648	1769	1884	2028	Measured Value (mV)
	SLOPE (mV/dB)	24.7	11	8	4	8	11	1	-20	-27	-21	-10	-5	11	8	6	-2	18	ERROR (mV)
	LIN. ERR. (dB)	1.1	0.43	0.33	0.16	0.34	0.45	0.02	-0.80	-1.09	-0.86	-0.41	-0.22	0.45	0.33	0.25	-0.09	0.71	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	1884	188	308	432	555	682	785	887	1005	1134	1274	1391	1524	1645	1767	1882	2027	Measured Value (mV)
	SLOPE (mV/dB)	24.3	8	6	8	10	16	-4	-24	-27	-19	-2	-6	5	4	4	-2	22	ERROR (mV)
	LIN. ERR. (dB)	1.1	0.33	0.26	0.34	0.42	0.62	-0.16	-0.98	-1.11	-0.79	-0.07	-0.25	0.22	0.18	0.18	-0.07	0.89	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	1892	170	291	412	542	672	794	901	1028	1154	1286	1393	1525	1645	1767	1882	2025	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-1	-3	-5	2	10	8	-8	-4	0	9	-7	1	-1	-2	-10	10	ERROR (mV)
	LIN. ERR. (dB)	0.4	-0.04	-0.11	-0.20	0.08	0.39	0.34	-0.32	-0.15	0.00	0.35	-0.30	0.06	-0.04	-0.09	-0.39	0.42	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	1890	166	276	394	526	654	776	884	1004	1136	1271	1386	1521	1642	1765	1883	2031	Measured Value (mV)
	SLOPE (mV/dB)	24.9	7	3	-3	4	7	5	-11	-15	-8	3	-6	4	1	-1	-6	17	ERROR (mV)
	LIN. ERR. (dB)	0.7	0.29	0.11	-0.14	0.15	0.30	0.21	-0.44	-0.62	-0.33	0.11	-0.25	0.15	0.05	-0.02	-0.26	0.68	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1859	158	277	395	525	647	754	855	967	1103	1234	1359	1496	1622	1745	1860	2008	Measured Value (mV)
	SLOPE (mV/dB)	24.5	14	11	6	13	18	-2	-24	-34	-21	-12	-10	4	8	8	1	26	ERROR (mV)
	LIN. ERR. (dB)	1.4	0.56	0.43	0.24	0.54	0.53	-0.10	-0.99	-1.41	-0.87	-0.50	-0.42	0.18	0.34	0.35	0.05	1.08	LINEARITY ERROR (dB)

Avg. Slope: 24.7 mV/dB

Flatness dB: ±1.6 dB





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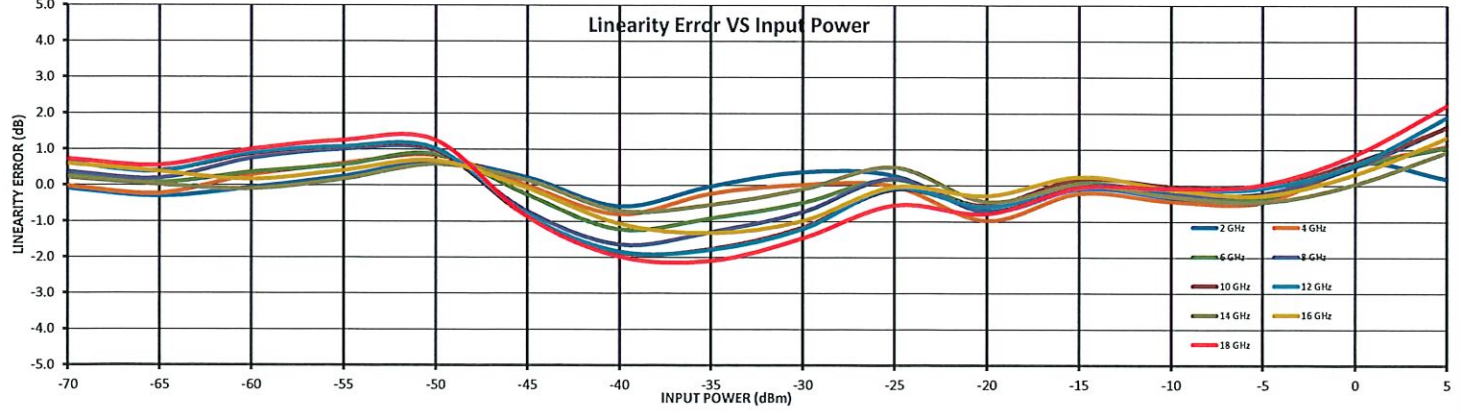
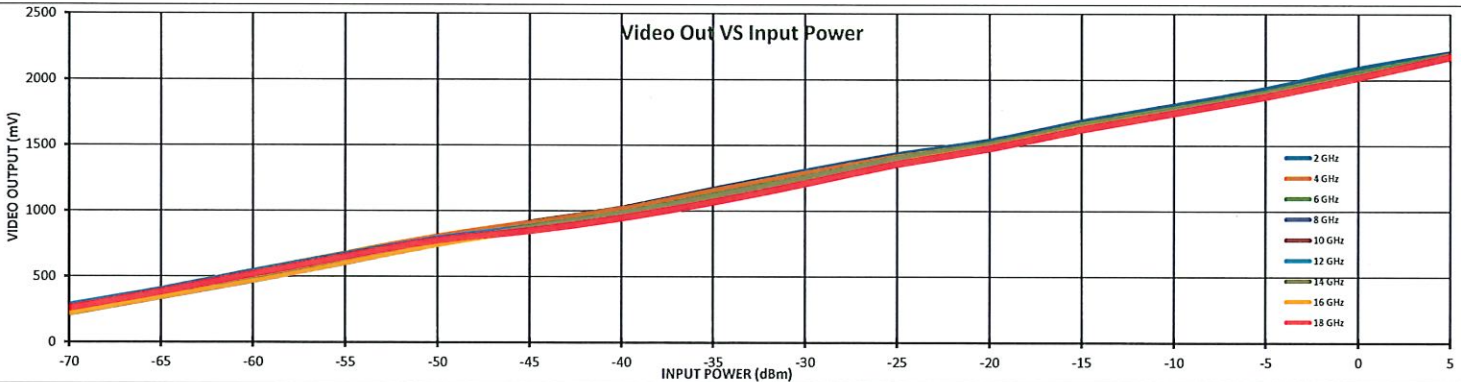
PL36394/2218

Log Transfer Over Frequency -40°C



Model: SDLVA-6G18G-CD-2-OPT218
 Serial No: PL36394/2218
 Date: 4/28/2022
 Tested By: RCombs
 Test Temp: -40°C

Frequency	INTERCEPT (mV)	2071	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	2071	256	380	516	653	793	911	1020	1164	1304	1431	1535	1681	1804	1929	2088	2205	Measured Value (mV)
	SLOPE (mV/dB)	25.9	-2	-8	-1	7	17	6	-15	-1	10	7	-18	-2	8	-12	17	5	ERROR (mV)
	LIN. ERR. (dB)	0.7	-0.09	-0.30	-0.06	0.25	0.66	0.22	-0.58	-0.03	0.38	0.28	-0.70	-0.06	-0.32	-0.47	0.64	0.19	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2041	281	402	540	674	805	910	1016	1156	1288	1413	1514	1659	1779	1904	2056	2195	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-1	-6	7	15	21	0	-20	-6	1	0	-25	-5	-11	-12	14	28	ERROR (mV)
	LIN. ERR. (dB)	1.1	-0.03	-0.22	0.29	0.60	0.83	-0.01	-0.81	-0.23	0.02	-0.01	-0.98	-0.22	-0.44	-0.46	0.56	1.10	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2037	257	380	514	648	783	881	985	1120	1259	1403	1512	1656	1776	1901	2051	2192	Measured Value (mV)
	SLOPE (mV/dB)	25.5	8	2	9	15	22	-7	-31	-23	-12	4	-15	2	-6	-9	14	27	ERROR (mV)
	LIN. ERR. (dB)	1.2	0.29	0.08	0.36	0.58	0.87	-0.27	-1.22	-0.91	-0.48	0.17	-0.59	0.08	-0.23	-0.35	0.54	1.07	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	2012	280	400	538	669	792	875	976	1109	1247	1395	1496	1636	1757	1882	2025	2177	Measured Value (mV)
	SLOPE (mV/dB)	24.9	9	5	19	25	24	-18	-41	-32	-18	5	-18	-2	-6	-5	13	41	ERROR (mV)
	LIN. ERR. (dB)	1.6	0.38	0.20	0.75	1.01	0.96	-0.72	-1.64	-1.30	-0.74	0.20	-0.73	-0.09	-0.24	-0.22	0.53	1.64	LINEARITY ERROR (dB)
10 GHz	INTERCEPT (mV)	2012	276	396	533	663	785	864	964	1092	1232	1384	1497	1641	1761	1886	2028	2177	Measured Value (mV)
	SLOPE (mV/dB)	25.0	15	10	22	27	24	-22	-47	-44	-29	-3	-14	4	-1	-1	16	41	ERROR (mV)
	LIN. ERR. (dB)	1.9	0.62	0.41	0.88	1.07	0.98	-0.87	-1.87	-1.77	-1.17	-1.10	-0.55	0.17	-0.03	-0.04	0.64	1.62	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2005	277	396	533	662	785	863	962	1088	1227	1380	1492	1631	1753	1878	2019	2177	Measured Value (mV)
	SLOPE (mV/dB)	24.9	16	10	23	27	26	-21	-46	-44	-30	-2	-15	0	-3	-2	14	47	ERROR (mV)
	LIN. ERR. (dB)	1.9	0.62	0.40	0.90	1.08	1.03	-0.84	-1.84	-1.78	-1.21	-0.07	-0.59	0.01	-0.12	-0.07	0.57	1.91	LINEARITY ERROR (dB)
14 GHz	INTERCEPT (mV)	2024	224	348	474	610	749	867	974	1107	1247	1392	1496	1638	1758	1883	2025	2177	Measured Value (mV)
	SLOPE (mV/dB)	25.8	6	1	-2	5	15	4	-18	-14	-3	13	-12	1	-8	-12	1	24	ERROR (mV)
	LIN. ERR. (dB)	0.9	0.21	0.02	-0.09	0.18	0.59	0.14	-0.71	-0.54	-0.11	0.51	-0.45	0.03	-0.30	-0.46	0.04	0.94	LINEARITY ERROR (dB)
16 GHz	INTERCEPT (mV)	2019	216	340	465	601	738	848	952	1075	1214	1369	1492	1636	1757	1882	2027	2184	Measured Value (mV)
	SLOPE (mV/dB)	26.0	16	10	4	11	18	-2	-28	-34	-26	-1	-8	6	-3	-7	8	35	ERROR (mV)
	LIN. ERR. (dB)	1.3	0.60	0.38	0.17	0.42	0.69	-0.08	-1.07	-1.33	-0.99	-0.03	-0.29	0.24	-0.10	-0.27	0.32	1.34	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	1997	262	383	519	651	776	848	946	1068	1209	1357	1477	1620	1745	1873	2019	2179	Measured Value (mV)
	SLOPE (mV/dB)	25.1	18	14	25	31	31	-22	-50	-53	-37	-14	-20	-1	-2	1	21	58	ERROR (mV)
	LIN. ERR. (dB)	2.233	0.73	0.56	1.00	1.25	1.25	-0.88	-1.98	-2.10	-1.46	-0.55	-0.79	-0.05	-0.08	0.03	0.86	2.23	LINEARITY ERROR (dB)
Avg. Slope: 25.4 mV/dB			1.3	1.2	1.5	1.4	1.3	1.3	1.5	1.9	1.9	1.4	1.2	1.2	1.2	1.1	1.4	0.6	Flatness dB: ±1.9 dB

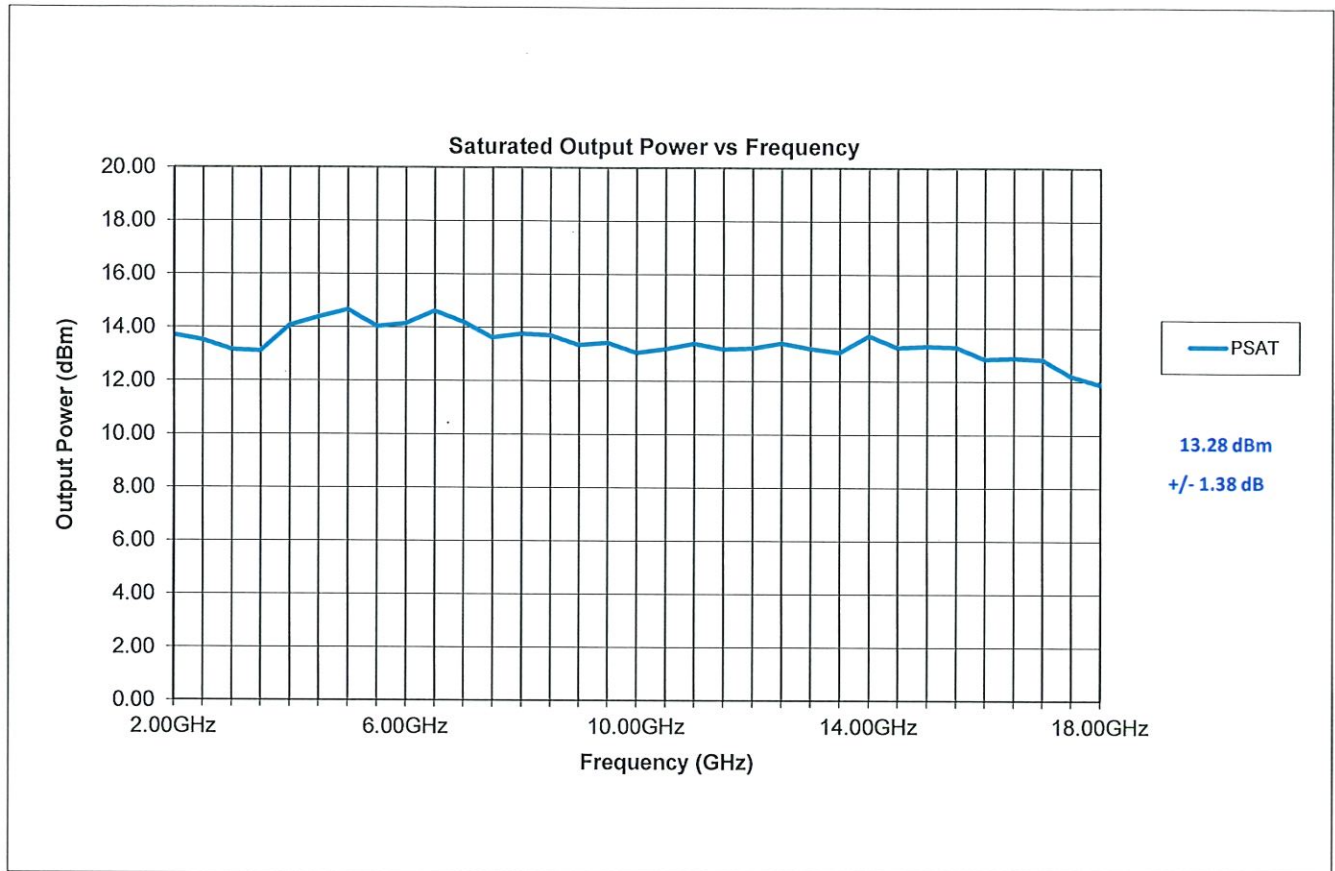




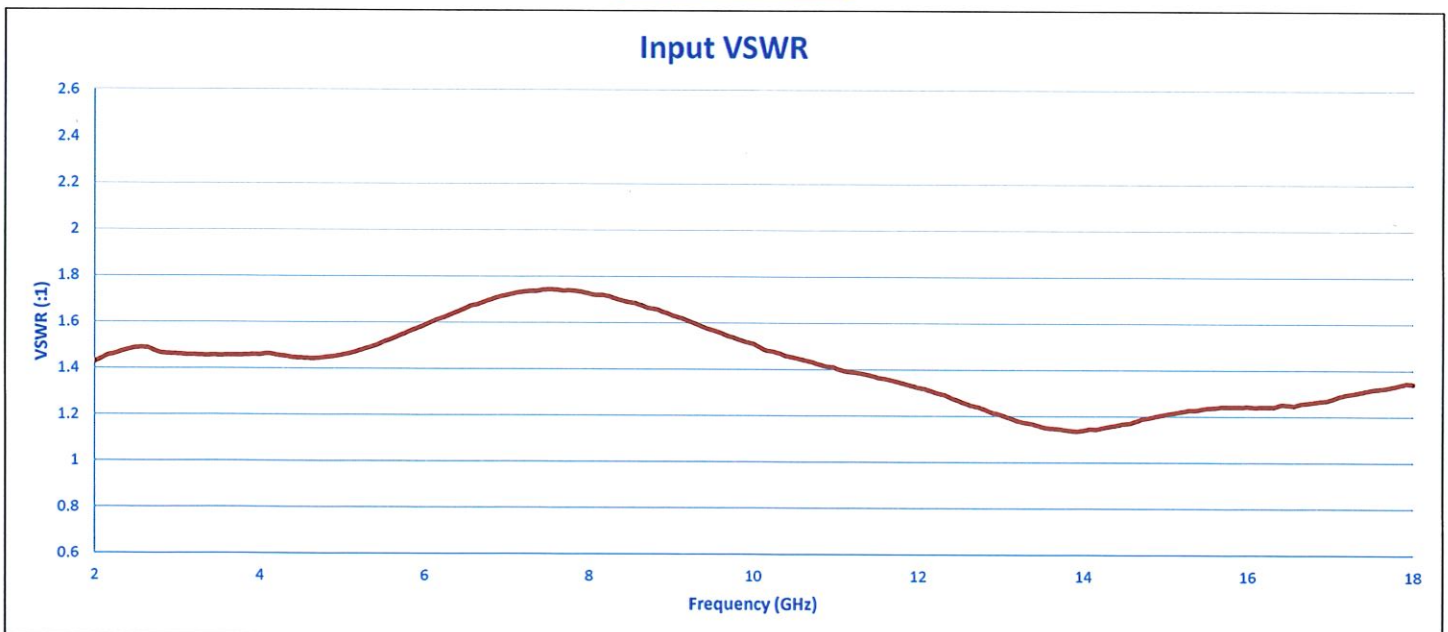
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36394/2218

PSAT



INPUT VSWR

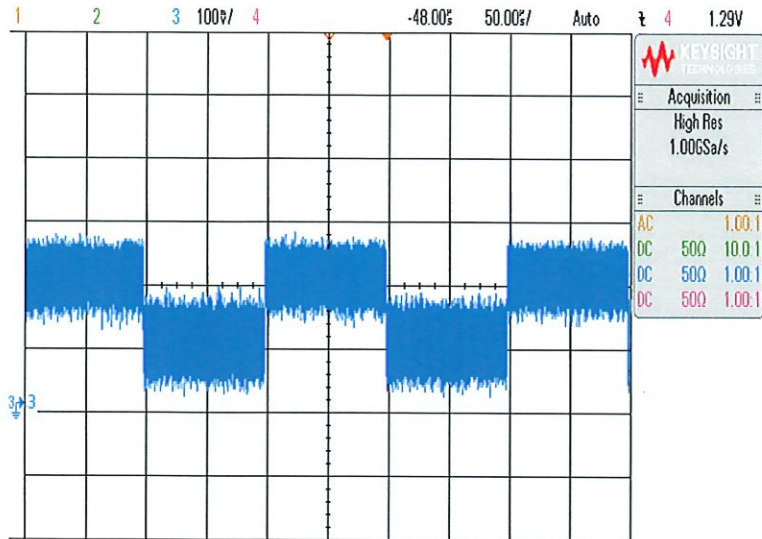




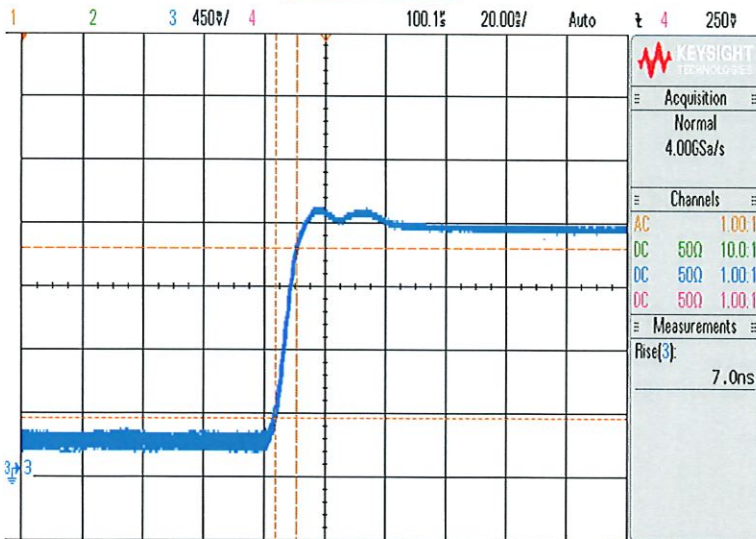
SUMMARY TEST DATA ON SDLVA-6G18G-CD-2-OPT218

PL36394/2218

TSS



Rise Time



Fall Time

